

## **Box Plot Examples**

**Puzzle #1:** Below is a distribution table for the scores on an exam for a large upper level statistics class. The right-hand column shows the percentage of scores in each interval. The lowest score was 0, the second-lowest was 6, and the highest score was 100. To draw a box plot of the data you'd have to find the median, Q1, and Q3:

Median=	Score	%
Q1 =	0-50	25
Q3=	50-60	10
The middle 50% of the scores lie between &	60-70	15
List all outliers	70-80	25
	80-90	20
	90-100	5

## Draw a boxplot of the exam scores below:


\*If the dataset has no outliers, the ends of the whiskers represent the minimum and maximum values of the dataset.

\* If the dataset does have outliers, the outliers are plotted as single dots & the ends of the whiskers represent the highest and lowest data points that are not outliers (within 1.5\*IQR of Q1 and Q3).



**Puzzle #2:** Answer the following questions about the horizontal boxplot below:

